

5 DYNAMIC CONTROL GRAPHS FOR ANALYSIS OF  
COORDINATION CENTRIC SOFTWARE DESIGNS

Abstract of the Disclosure

- 10 Static analysis can be of great benefit in debugging complex systems.  
Traditional runtime debugging is necessary because certain software errors cannot be detected until after they are compiled into execution errors. Static analysis can reduce the number of such errors and can aid designers by illuminating subtle design interactions. Disclosed are various systems and methods for static analysis that can be
- 15 applied to coordination-centric systems, including typechecking, consistency checking, and conflict detection through automatically derived abstract views, and model checking. The static analyses presented here comprise a form of preemptive debugging for coordination-centric software systems.

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